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Omnivergent Stereo Image Capture

ABSTRACT

Methods and apparatuses for obtaining a first image and a second image defining a convergent stereo image, and constructing a three-dimensional images based on the obtained first and second images. In one embodiment, a deflector, such as a prism, is rotably mounted about an axis, and first and second inputs received by the deflector are deflected towards a receptor at or proximate to the axis. In one embodiment, the axis and the deflector are perpendicular to a rotation plane, and the first and second inputs are tangential to a region defined by the rotation of the deflector about the axis, opposing each other, and parallel to the rotation plane. The first and second images are respectively determined with respect to first and second inputs received as the deflector rotates about the axis.